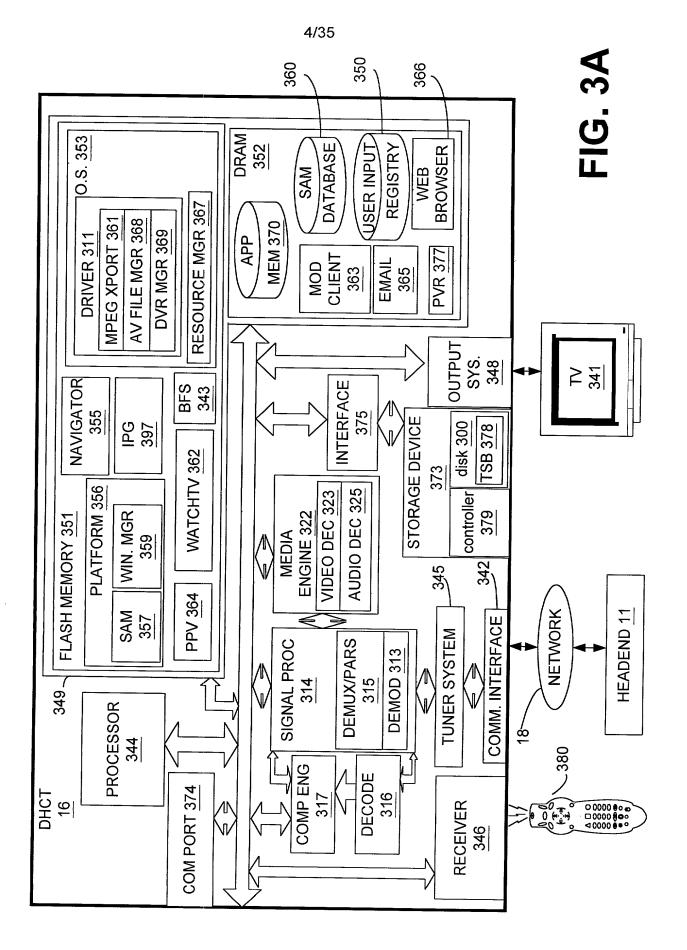
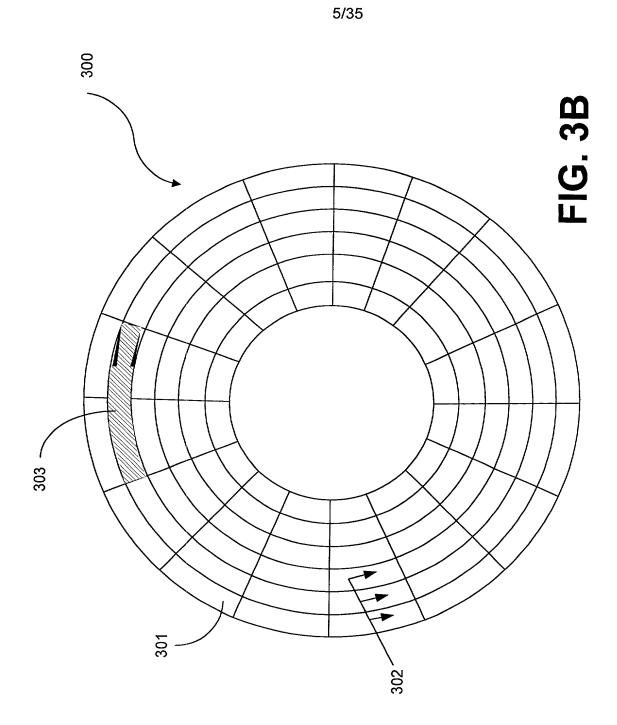


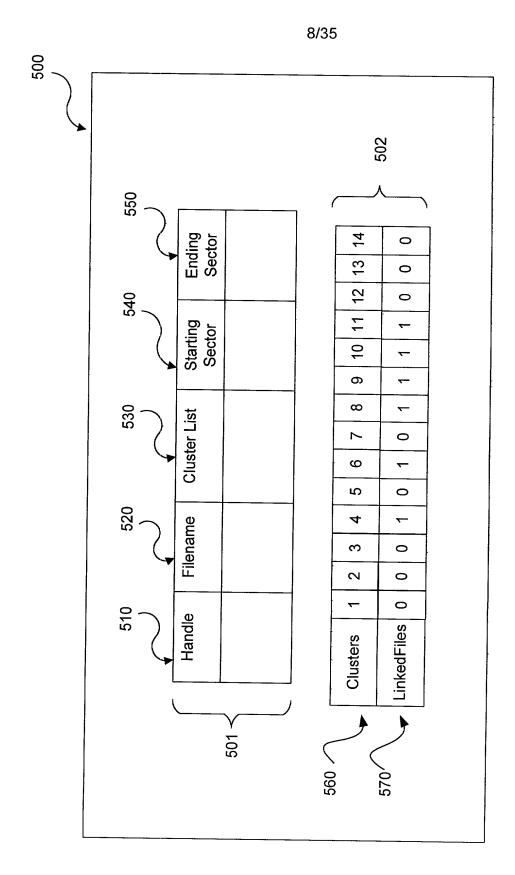
FIG. 2





```
/* stop NPT for the media content instance*/
                                                                                                                                                                                                           /* start NPT for the media content instance*/
                                                                                                                           /* program description, title, times */
                                                                    /* 0 = do not permanently record */
                                                                                                                                                                                  *
                                                                                                                                                                                                                                                                                          tsbStartNPT; /* start NPT for associated TSB
                                                                                                                                                                                                                                                                                                                      tsbStopNPT; /* stop NPT for associated TSB
                                                                                                                                                                                                                                                                 /* handle for associated TSB
                                                                                               /* file handle, 0 = file closed
                                                                                                                                                                               /* actual record stop time
                                                                                                                                                      /* actual record start time
                                                                                                                                                                                                                                                              tsbHandle
                                                                                                                    ∠ char *guideData;
                                                                                                                                                                                                                                     stopNPT;
                                                                                                                                                   startTime;
                                                                                                                                                                            stopTime;
                                                                                                                                                                                                         startNPT;
struct ProgramInfo
                                                                                                                                                                                                                                                                                                                                                 /* additional data */
                                                          415 bool recorded;
                                    ✓ char *filename;
                                                                                            handle;
                                                                                                                                          430 time s
                                                                                                                                                                     435 time
                                                                                        i<u>i</u>
                                                                                                                                                                                                                                                                                                                     455 --- int
                                                                                                                                                                                                        437— int
                                                                                                                                                                                                                                    440 ____int
                                                                                                                                                                                                                                                                                          450 int
                                                                                                                                                                                                                                                            445 — int
                                                                                                                                                                                                                                                                                                                                                                             ټنہ
```

The first first and the first first first first from the first fir



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FIG. 5B

FIG. 5C

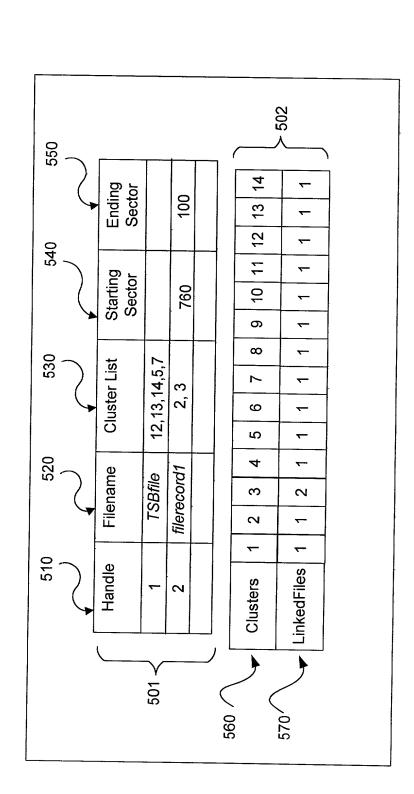
500

FIG. 5D

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```
struct clusterInfo /* cluster entry data in FAT */
{
    short numLinkedFiles; /* number of linked files */
    /* additional data */
}
```

FIG. 6A

```
struct RecordedFileInfo
{
    ClusterList clusterList; /* ordered list of clusters */
    unsigned startingSector;
    unsigned endingSector;
    /* additional data */
}
```

FIG. 6B

```
struct TSBfileInfo
{
    ClusterList clusterList; /* ordered list of clusters
    /* additional data */
}
```

FIG. 6C

void dvrm_TimeShift (ui32 *handle, TV_ID tvld)

FIG. 7A

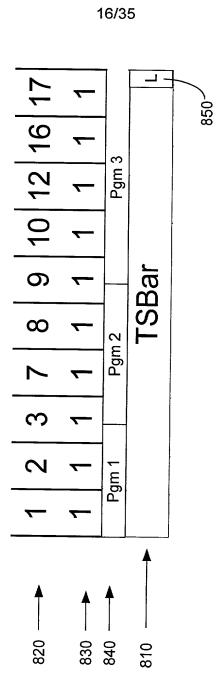
dvrm_Record (ui32 *handle, TV_ID tvld, char *filename, eDvr_Quality quality)

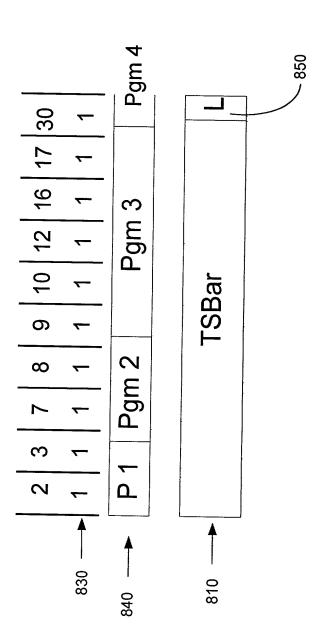
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FIG. 7B

dvrm_TimeShiftRecord (ui32 *handle, ui32 *tsbHandle, char *filename, i32 startNpt, i32 stopNpt)

FIG. 7C





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And the state of t

FIG. 9A

		- , ,	
34	_	4	
	_	Pgm 4	
30 31	_	a	
17	_		
16	_	33	3ar
12	~	Pgm 3	TSBar
10 12 16 17	_		
တ	2		
∞	2	n 2	
7	7	Pgm	
က			<u> </u>

20/35

35		
34	Pgm 4	
31	Pgr	
30	-	
7		3ar
16	က	TSBar
12	Pgm 3	
10 12 16 1 1 1 1 1		
6		}
8 2	n 2	
7 1	Pgm	
ω ~		

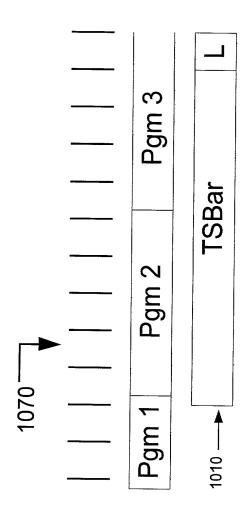
The state of the s

36	_		
35	_	4	
30 31 34 35	_	Pgm,	
31	_	P	
30	_		3ar
17			TSBar
16 17	_	8	
\sim	_	Pgm 3	
101	_		
တ	7		
∞	_	n 2	
7		Pgm	
3	_		

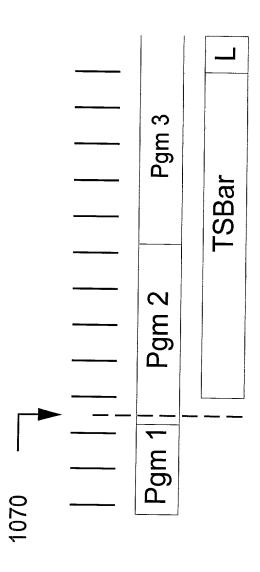
And the state of t

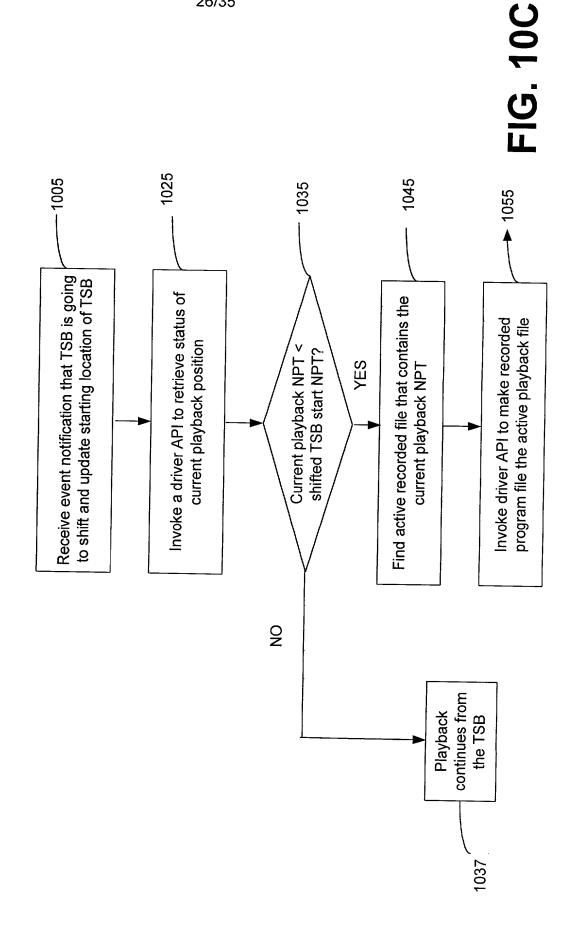
37	Pgm 5	
36		
35	4	
1 34	Pgm	
1 3		3ar
30		TSBar
1		
16	Pgm 3	
4 -	Pgl	
10		
0 -		
∞ ←	2	
<u> </u>	Pgm	

The state of the s



All there were the control than the control that the cont





dvrm_Status (ui32 handle, *i32 npt, sDvr_Scale *scale, ui32 *mode)

FIG. 10D

void dvrm ConvertPlay (ui32 tsbHandle, ui32 handle)

FIG. 10E

36	_		
35	_	4	
34	_	Pgm 4	
10 12 16 17 30 31 34 35	_	ا کا	
30	2		Bar
17	7		TS
16	7	8	
12	2	Pgm 3	
10	7		
တ	3		
∞		m 2	
/	_	Pgm	
CO	_		

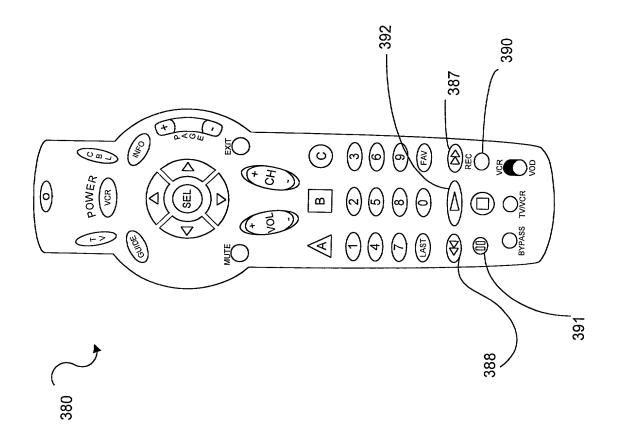
FIG. 11A

3 37	~	Pgm 5	
36		_	
35	_	4	
34	_	Pgm 4	
31	_		3ar
30	_		TSBar
17	2		-
16	7	ကြ	
7	7	Pgm 3	
10	2		
တ	7		
∞	_	gm 2	
1		gu	

FIG. 11B

38	~	Pgm	
36 37	_	G,	
36	_		
35	_	4	
34	~	Pgm 4	3ar
31	_		TSBar
30	_		
17	2		
16	2	3	
12	7	Pgm 3	
10 12 16 17 30 31 34 35	_		<u> </u>
တ	2		
∞	_	n 2	
2	_	Pgm 2	
3	$\overline{}$		

FIG. 11C



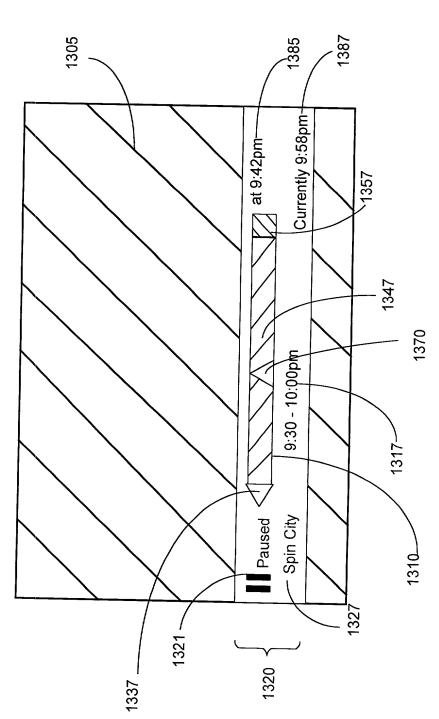


FIG. 13A

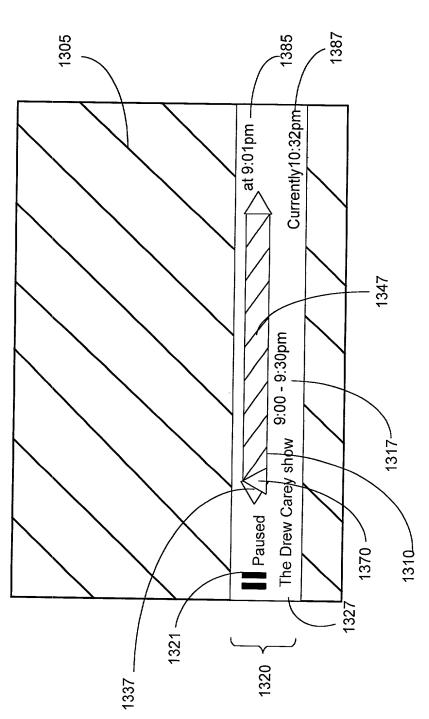


FIG. 13B

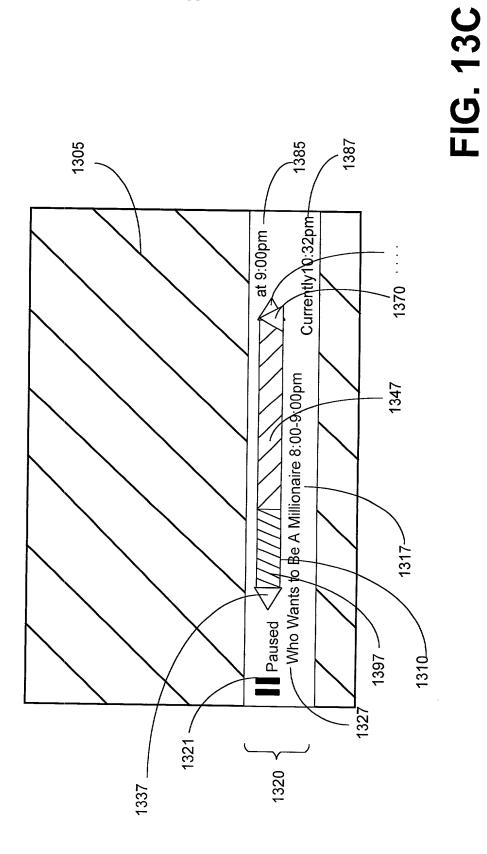


FIG. 14